



# LAMPIRAN

| Identification  |                |
|-----------------|----------------|
| Job Name: _____ |                |
| Dept: _____     | Date: _____    |
| Zone: _____     | Analyst: _____ |
| Station: _____  | Record: _____  |

**Direction**

- Mark all appropriate Posture, Force, Duration, and Frequency boxes
- Total the number of marked boxes
- For body areas with a total of 2 or more, mark the body area in the High Risk Summary.

| High Risk Summary |            |
|-------------------|------------|
| Left              | Right      |
| Hand/Wrist        | Hand/Wrist |
| Elbow             | Elbow      |
| Shoulder          | Shoulder   |
| Neck              |            |
| Back              |            |
| Legs              |            |

|           | Left                |            |                  | Right           |                     |            | Neck             | Back      | Legs           |
|-----------|---------------------|------------|------------------|-----------------|---------------------|------------|------------------|-----------|----------------|
|           | Hand and Wrist      | Elbow      | Shoulder         | Hand and Wrist  | Elbow               | Shoulder   |                  |           |                |
| Posture   | Pinch grip          | Radial Dev | Forearm Rotation | ≥ 45°           | Pinch grip          | Radial Dev | Forearm Rotation | ≥ 20°     | Squat          |
|           | Finger press        | Ulnar Dev  | Full Extension   | Arm Behind Body | Finger press        | Ulnar Dev  | Full Extension   | Sideways  | Stand on 1 leg |
|           |                     | Flex ≥ 45° |                  |                 |                     | Flex ≥ 45° | Arm Behind Body  | Backwards | Kneel          |
|           |                     | Ext ≥ 45°  |                  |                 |                     | Ext ≥ 45°  |                  | Twisted   |                |
| Force     | Pinch grip ≥ 2 lbs  |            | ≥ 10 lbs         | ≥ 10 lbs        | Pinch grip ≥ 2 lbs  |            | ≥ 10 lbs         | ≥ 20 lbs  | Foot ≥ 10 lbs  |
|           | Power grip ≥ 10 lbs |            |                  |                 | Power grip ≥ 10 lbs |            |                  |           |                |
| Duration  | ≥ 10 secs           |            |                  | ≥ 10 secs       | ≥ 10 secs           |            |                  | ≥ 10 secs | ≥ 30% of Day   |
| Frequency | ≥ 30/min            |            | ≥ 2/min          | ≥ 2/min         | ≥ 30/min            |            | ≥ 2/min          | ≥ 2/min   | ≥ 2/min        |
| Total     |                     |            |                  |                 |                     |            |                  |           |                |

# Kuesioner

No. Kuesioner:

Perkenalkan, saya Melissa Aprilia, mahasiswi Fakultas Kesehatan Masyarakat, Universitas Indonesia, pada Departemen Kesehatan dan Keselamatan Kerja (K3). Saat ini saya sedang melakukan penelitian untuk penyusunan tugas akhir (skripsi) mengenai **“Tingkat Risiko Ergonomi Terkait Keluhan Musculoskeletal Disorders Pada Pekerja Konstruksi”** sebagai syarat untuk penyelesaian studi program sarjana.

Berkenaan dengan hal tersebut, saya memohon kesediaan Bapak/Saudara untuk mengisi pertanyaan-pertanyaan yang ada di kuesioner ini. Jawaban Bapak/Saudara sangat bermanfaat dalam penelitian ini dan sekaligus dapat juga digunakan sebagai **masukan terhadap pengelolaan kesehatan dan keselamatan kerja** perusahaan ini, khususnya berguna untuk para pekerja lapangan di konstruksi pembangunan. Jawaban dan data Bapak /Saudara **terjamin kerahasiaannya**.

Untuk semuanya, saya ucapan terima kasih atas kesediaan Bapak /Saudara mengisi kuesioner ini.

Jakarta, April 2009

Melissa Aprilia

**BAGIAN (1)**

**Nama** : ..... **Umur** : .....

**Jenis Pekerjaan** : ..... **Subkon** : PT/Mandor.....

**BAGIAN (2)**

**Isilah titik-titik yang tersedia atau beri tanda checklist/contreng (✓) pada salah satu kotak pilihan jawaban yang ada, sesuai dengan yang Anda alami**

1. Sudah berapa lama Anda bekerja di proyek konstruksi pembangunan?

..... tahun ..... bulan

2. Sudah berapa lama Anda bekerja di Proyek GOR Boker?

..... tahun ..... bulan

3. Sudah berapa lamakah Anda melakukan pekerjaan ini (jenis pekerjaan yang Anda kerjakan saat ini)?

..... tahun ..... bulan

4. Berapa lama rata-rata waktu kerja Anda dalam sehari (tidak termasuk waktu istirahat)?

..... jam / hari

5. Apakah Anda merokok?

Ya       Tidak

6. Jika Ya, sudah berapa lama Anda merokok?

..... tahun

7. Jika Ya, berapa batang rokok yang Anda hisap dalam sehari?

..... batang/ hari

8. Apakah Anda pernah merasakan sakit atau rasa tidak nyaman pada otot dan tulang Anda?

Ya  
 Tidak

9. Bagaimana rasa sakit pada tulang dan otot tersebut?

Terasa sakit pada saat/selama melakukan pekerjaan  
 Terasa sakit setelah melakukan pekerjaan  
 Terasa sakit hanya pada malam hari  
 Terasa sakit pada akhir minggu  
 Lainnya (jelaskan).....

10. Apakah yang Anda lakukan untuk mengatasi keluhan / rasa sakit tersebut?

Istirahat  
 Meminum suplemen/obat  
 Meminum jamu-jamu  
 Dipijat  
 Lainnya (jelaskan).....

11. Apakah Anda pernah mengunjungi dokter untuk mengatasi keluhan / rasa sakit tersebut?

Ya  
 Tidak

**BAGIAN (3)**

Isilah kolom "Keluhan/sakit yang pernah dirasakan" yang tersedia dengan memberikan **tanda checklist/contreng (✓)** sesuai dengan bagian tubuh dan keluhan yang Anda rasakan

| Bagian tubuh yang merasakan keluhan/sakit              | Apa yang dirasakan | Berilah tanda (✓) pada apa saja yang dirasakan (jawaban boleh lebih dari 1) | Bagian tubuh yang merasakan keluhan/sakit                          | Apa yang dirasakan | Berilah tanda (✓) pada apa saja yang dirasakan (jawaban boleh lebih dari 1) |
|--|--------------------|---|--|--------------------|---|
| Jari-jari,<br>Tangan,<br>Pergelangan<br>Tangan (Kanan) | Sakit/nyeri        |   | Bahu (Kiri)  | Sakit/nyeri        |   |
|  | Panas              |   |  | Panas              |   |
|  | Kejang/kramp       |   |  | Kejang/kramp       |   |
|  | Mati rasa          |   |  | Mati rasa          |   |
|  | Bengkak            |   |  | Bengkak            |   |
|  | Kaku               |   |  | Kaku               |   |
|  | Pegal-pegal        |   |  | Pegal-pegal        |   |
| Jari-jari,<br>Tangan,<br>Pergelangan<br>Tangan (Kiri)  | Sakit/nyeri        |   | Leher,<br>Punggung<br>bagian atas                                  | Sakit/nyeri        |   |
|  | Panas              |   |  | Panas              |   |
|  | Kejang/kramp       |   |  | Kejang/kramp       |   |
|  | Mati rasa          |   |  | Mati rasa          |   |
|  | Bengkak            |   |  | Bengkak            |   |
|  | Kaku               |   |  | Kaku               |   |
|  | Pegal-pegal        |   |  | Pegal-pegal        |   |
| Siku (Kanan)   | Sakit/nyeri        |   | Punggung<br>bagian bawah,<br>Pinggang                              | Sakit/nyeri        |   |
|  | Panas              |   |  | Panas              |   |
|  | Kejang/kramp       |   |  | Kejang/kramp       |   |
|  | Mati rasa          |   |  | Mati rasa          |   |
|  | Bengkak            |   |  | Bengkak            |   |
|  | Kaku               |   |  | Kaku               |   |
|  | Pegal-pegal        |   |  | Pegal-pegal        |   |
| Siku (Kiri)  | Sakit/nyeri        |   | Paha, Lutut,<br>Betis, Tungkai<br>Kaki atau<br>Pergelangan<br>Kaki | Sakit/nyeri        |   |
|  | Panas              |   |  | Panas              |   |
|  | Kejang/kramp       |   |  | Kejang/kramp       |   |
|  | Mati rasa          |   |  | Mati rasa          |   |
|  | Bengkak            |   |  | Bengkak            |   |
|  | Kaku               |   |  | Kaku               |   |
|  | Pegal-pegal        |   |  | Pegal-pegal        |   |
| Bahu (Kanan)   | Sakit/nyeri        |   | Mohon diisi dengan lengkap   |                    |   |
|  | Panas              |   | Terima Kasih Atas Partisipasi Anda                                 |                    |   |
|  | Kejang/kramp       |   |  |                    |   |
|  | Mati rasa          |   |  |                    |   |
|  | Bengkak            |   |  |                    |   |
|  | Kaku               |   |  |                    |   |
|  | Pegal-pegal        |   |  |                    |   |

## HASIL PENGOLAHAN DATA (SPSS) TINGKAT RISIKO DENGAN KELUHAN MSDs DI TIAP BAGIAN TUBUH

### Case Processing Summary

|                                | Cases |         |         |         |       |         |
|--------------------------------|-------|---------|---------|---------|-------|---------|
|                                | Valid |         | Missing |         | Total |         |
|                                | N     | Percent | N       | Percent | N     | Percent |
| t & pt kiri *keluhan t&pt kiri | 38    | 100.0%  | 0       | .0%     | 38    | 100.0%  |

### t & pt kiri \* keluhan t&pt kiri Crosstabulation

|             |        | keluhan t&pt kiri    |       | Total  |
|-------------|--------|----------------------|-------|--------|
|             |        | tidak                | ya    |        |
| t & pt kiri | rendah | Count                | 13    | 14     |
|             |        | % within t & pt kiri | 92.9% | 100.0% |
|             | sedang | Count                | 14    | 19     |
|             |        | % within t & pt kiri | 73.7% | 100.0% |
|             | tinggi | Count                | 3     | 5      |
|             |        | % within t & pt kiri | 60.0% | 100.0% |
| Total       |        | Count                | 30    | 38     |
|             |        | % within t & pt kiri | 78.9% | 100.0% |

### Chi-Square Tests

|                              | Value    | df | Asymp. Sig. (2-sided) |
|------------------------------|----------|----|-----------------------|
| Pearson Chi-Square           | 3.026(a) | 2  | .220                  |
| Likelihood Ratio             | 3.278    | 2  | .194                  |
| Linear-by-Linear Association | 2.910    | 1  | .088                  |
| N of Valid Cases             | 38       |    |                       |

a 4 cells (66.7%) have expected count less than 5. The minimum expected count is 1.05.

### Risk Estimate

|  | Value |
|--|-------|
| Odds Ratio for t & pt kiri (rendah / sedang) | (a)   |

a Risk Estimate statistics cannot be computed. They are only computed for a 2\*2 table without empty cells.

### t & pt kanan \* keluhan t&pt kanan Crosstabulation

|              |        | keluhan t&pt kanan    |       | Total  |
|--------------|--------|-----------------------|-------|--------|
|              |        | tidak                 | ya    |        |
| t & pt kanan | rendah | Count                 | 3     | 7      |
|              |        | % within t & pt kanan | 42.9% | 100.0% |
|              | sedang | Count                 | 9     | 15     |
|              |        | % within t & pt kanan | 60.0% | 100.0% |
|              | tinggi | Count                 | 9     | 16     |
|              |        | % within t & pt kanan | 56.3% | 100.0% |
| Total        |        | Count                 | 21    | 38     |
|              |        | % within t & pt kanan | 55.3% | 100.0% |

### Chi-Square Tests

|                              | Value   | df | Asymp. Sig. (2-sided) |
|------------------------------|---------|----|-----------------------|
| Pearson Chi-Square           | .578(a) | 2  | .749                  |
| Likelihood Ratio             | .576    | 2  | .750                  |
| Linear-by-Linear Association | .199    | 1  | .656                  |
| N of Valid Cases             | 38      |    |                       |

a 2 cells (33.3%) have expected count less than 5. The minimum expected count is 3.13.

**Risk Estimate**

|   | Value |
|---|-------|
| Odds Ratio for t & pt kanan (rendah / sedang) | (a)   |

a Risk Estimate statistics cannot be computed. They are only computed for a 2\*2 table without empty cells.

**siku kiri \* keluhan siku kiri Crosstabulation**

|           |        |                    | keluhan siku kiri |        | Total  |
|-----------|--------|--------------------|-------------------|--------|--------|
|           |        |                    | tidak             | ya     | tidak  |
| siku kiri | rendah | Count              | 36                | 1      | 37     |
|           |        | % within siku kiri | 97.3%             | 2.7%   | 100.0% |
|           | sedang | Count              | 0                 | 1      | 1      |
|           |        | % within siku kiri | .0%               | 100.0% | 100.0% |
| Total     |        | Count              | 36                | 2      | 38     |
|           |        | % within siku kiri | 94.7%             | 5.3%   | 100.0% |

**Chi-Square Tests**

|                              | Value     | df | Asymp. Sig. (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|------------------------------|-----------|----|-----------------------|----------------------|----------------------|
| Pearson Chi-Square           | 18.486(b) | 1  | .000                  |                      |                      |
| Continuity Correction(a)     | 4.122     | 1  | .042                  |                      |                      |
| Likelihood Ratio             | 6.476     | 1  | .011                  | .053                 | .053                 |
| Fisher's Exact Test          |           |    |                       |                      |                      |
| Linear-by-Linear Association | 18.000    | 1  | .000                  |                      |                      |
| N of Valid Cases             | 38        |    |                       |                      |                      |

a Computed only for a 2x2 table

b 3 cells (75.0%) have expected count less than 5. The minimum expected count is .05.

**Risk Estimate**

|                                   | Value | 95% Confidence Interval |       |
|-----------------------------------|-------|-------------------------|-------|
|                                   |       | Lower                   | Upper |
| For cohort keluhan siku kiri = ya | .027  | .004                    | .187  |
| N of Valid Cases                  | 38    |                         |       |

**siku kanan \* keluhan siku kanan Crosstabulation**

|            |        |                     | keluhan siku kanan |       | Total  |
|------------|--------|---------------------|--------------------|-------|--------|
|            |        |                     | tidak              | ya    | tidak  |
| siku kanan | rendah | Count               | 20                 | 3     | 23     |
|            |        | % within siku kanan | 87.0%              | 13.0% | 100.0% |
|            | sedang | Count               | 11                 | 4     | 15     |
|            |        | % within siku kanan | 73.3%              | 26.7% | 100.0% |
| Total      |        | Count               | 31                 | 7     | 38     |
|            |        | % within siku kanan | 81.6%              | 18.4% | 100.0% |

**Chi-Square Tests**

|                              | Value    | df | Asymp. Sig. (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|------------------------------|----------|----|-----------------------|----------------------|----------------------|
| Pearson Chi-Square           | 1.121(b) | 1  | .290                  |                      |                      |
| Continuity Correction(a)     | .398     | 1  | .528                  |                      |                      |
| Likelihood Ratio             | 1.097    | 1  | .295                  |                      |                      |
| Fisher's Exact Test          |          |    |                       | .401                 | .261                 |
| Linear-by-Linear Association | 1.092    | 1  | .296                  |                      |                      |
| N of Valid Cases             | 38       |    |                       |                      |                      |

a Computed only for a 2x2 table

b 2 cells (50.0%) have expected count less than 5. The minimum expected count is 2.76.

**Risk Estimate**

|   | Value | 95% Confidence Interval |        |       |
|---|-------|-------------------------|--------|-------|
|   |       | Lower                   | Upper  | Lower |
| Odds Ratio for siku kanan (rendah / sedang) | 2.424 | .457                    | 12.852 |       |
| For cohort keluhan siku kanan = tidak       | 1.186 | .841                    | 1.672  |       |
| For cohort keluhan siku kanan = ya          | .489  | .127                    | 1.883  |       |
| N of Valid Cases                            | 38    |                         |        |       |

**bahu kiri \* keluhan bahu kiri Crosstabulation**

|           |        | keluhan bahu kiri  |       | Total  |
|-----------|--------|--------------------|-------|--------|
|           |        | tidak              | ya    |        |
| bahu kiri | rendah | Count              | 5     | 8      |
|           |        | % within bahu kiri | 62.5% | 100.0% |
|           | sedang | Count              | 4     | 7      |
|           |        | % within bahu kiri | 57.1% | 100.0% |
|           | tinggi | Count              | 11    | 23     |
|           |        | % within bahu kiri | 47.8% | 100.0% |
| Total     |        | Count              | 20    | 38     |
|           |        | % within bahu kiri | 52.6% | 100.0% |

**Chi-Square Tests**

|                              | Value   | df | Asymp. Sig. (2-sided) |
|------------------------------|---------|----|-----------------------|
|                              |         |    |                       |
| Pearson Chi-Square           | .583(a) | 2  | .747                  |
| Likelihood Ratio             | .587    | 2  | .746                  |
| Linear-by-Linear Association | .559    | 1  | .455                  |
| N of Valid Cases             | 38      |    |                       |

a 4 cells (66.7%) have expected count less than 5. The minimum expected count is 3.32.

**Risk Estimate**

|  | Value |
|--|-------|
| Odds Ratio for bahu kiri (rendah / sedang) | (a)   |

a Risk Estimate statistics cannot be computed. They are only computed for a 2\*2 table without empty cells.

**bahu kanan \* keluhan bahu kanan Crosstabulation**

|            |        | keluhan bahu kanan  |       | Total  |
|------------|--------|---------------------|-------|--------|
|            |        | tidak               | ya    |        |
| bahu kanan | sedang | Count               | 4     | 5      |
|            |        | % within bahu kanan | 80.0% | 100.0% |
|            | tinggi | Count               | 10    | 23     |
|            |        | % within bahu kanan | 30.3% | 69.7%  |
|            | Total  | Count               | 14    | 24     |
|            |        | % within bahu kanan | 36.8% | 63.2%  |

**Chi-Square Tests**

|                              | Value    | df | Asymp. Sig. (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|------------------------------|----------|----|-----------------------|----------------------|----------------------|
| Pearson Chi-Square           | 4.609(b) | 1  | .032                  |                      |                      |
| Continuity Correction(a)     | 2.720    | 1  | .099                  |                      |                      |
| Likelihood Ratio             | 4.527    | 1  | .033                  | .052                 | .052                 |
| Fisher's Exact Test          |          |    |                       |                      |                      |
| Linear-by-Linear Association | 4.488    | 1  | .034                  |                      |                      |
| N of Valid Cases             | 38       |    |                       |                      |                      |

a Computed only for a 2x2 table

b 2 cells (50.0%) have expected count less than 5. The minimum expected count is 1.84.

**Risk Estimate**

|   | Value | 95% Confidence Interval |        |       |
|---|-------|-------------------------|--------|-------|
|   |       | Lower                   | Upper  | Lower |
| Odds Ratio for bahu kanan (sedang / tinggi) | 9.200 | .910                    | 93.024 |       |
| For cohort keluhan bahu kanan = tidak       | 2.640 | 1.340                   | 5.201  |       |
| For cohort keluhan bahu kanan = ya          | .287  | .049                    | 1.680  |       |
| N of Valid Cases                            | 38    |                         |        |       |

**leher \* keluhan leher Crosstabulation**

|       |        | keluhan leher  |                | Total            |
|-------|--------|----------------|----------------|------------------|
|       |        | tidak          | ya             |                  |
| leher | sedang | Count          | 7              | 13               |
|       | tinggi | Count          | 17             | 25               |
| Total |        | % within leher | 53.8%<br>68.0% | 100.0%<br>100.0% |
|       |        | Count          | 24             | 38               |
|       |        | % within leher | 63.2%<br>36.8% | 100.0%           |

**Chi-Square Tests**

|                              | Value   | df | Asymp. Sig. (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|------------------------------|---------|----|-----------------------|----------------------|----------------------|
| Pearson Chi-Square           | .736(b) | 1  | .391                  |                      |                      |
| Continuity Correction(a)     | .254    | 1  | .614                  |                      |                      |
| Likelihood Ratio             | .728    | 1  | .394                  | .486                 | .305                 |
| Fisher's Exact Test          |         |    |                       |                      |                      |
| Linear-by-Linear Association | .717    | 1  | .397                  |                      |                      |
| N of Valid Cases             | 38      |    |                       |                      |                      |

a Computed only for a 2x2 table

b 1 cells (25.0%) have expected count less than 5. The minimum expected count is 4.79.

**Risk Estimate**

|  | Value | 95% Confidence Interval |       |
|--|-------|-------------------------|-------|
|  |       | Lower                   | Upper |
| Odds Ratio for leher (sedang / tinggi) | .549  | .139                    | 2.175 |
| For cohort keluhan leher = tidak       | .792  | .448                    | 1.401 |
| For cohort keluhan leher = ya          | 1.442 | .636                    | 3.273 |
| N of Valid Cases                       | 38    |                         |       |

**punggung \* keluhan punggung Crosstabulation**

|          |        | keluhan punggung  |                | Total            |
|----------|--------|-------------------|----------------|------------------|
|          |        | tidak             | ya             |                  |
| punggung | sedang | Count             | 3              | 15               |
|          | tinggi | Count             | 9              | 23               |
| Total    |        | % within punggung | 20.0%<br>39.1% | 100.0%<br>100.0% |
|          |        | Count             | 12             | 38               |
|          |        | % within punggung | 31.6%          | 68.4%            |

**Chi-Square Tests**

|                              | Value    | df | Asymp. Sig. (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|------------------------------|----------|----|-----------------------|----------------------|----------------------|
| Pearson Chi-Square           | 1.538(b) | 1  | .215                  |                      |                      |
| Continuity Correction(a)     | .780     | 1  | .377                  |                      |                      |
| Likelihood Ratio             | 1.597    | 1  | .206                  |                      |                      |
| Fisher's Exact Test          |          |    |                       | .294                 | .190                 |
| Linear-by-Linear Association |          |    |                       |                      |                      |
| N of Valid Cases             | 38       |    | .221                  |                      |                      |

a Computed only for a 2x2 table

b 1 cells (25.0%) have expected count less than 5. The minimum expected count is 4.74.

#### Risk Estimate

|   | Value | 95% Confidence Interval |       |       |
|---|-------|-------------------------|-------|-------|
|   |       | Lower                   | Upper | Lower |
| Odds Ratio for punggung (sedang / tinggi) | .389  | .085                    | .173  |       |
| For cohort keluhan punggung = tidak       | .511  | .165                    | 1.587 |       |
| For cohort keluhan punggung = ya          | 1.314 | .869                    | 1.988 |       |
| N of Valid Cases                          | 38    |                         |       |       |

|       |        | keluhan kaki  |       | Total  |
|-------|--------|---------------|-------|--------|
|       |        | tidak         | ya    | tidak  |
| kaki  | rendah | Count         | 3     | 1      |
|       |        | % within kaki | 75.0% | 25.0%  |
|       | sedang | Count         | 12    | 17     |
|       |        | % within kaki | 41.4% | 58.6%  |
|       | tinggi | Count         | 2     | 3      |
|       |        | % within kaki | 40.0% | 60.0%  |
| Total |        | Count         | 17    | 21     |
|       |        | % within kaki | 44.7% | 55.3%  |
|       |        |               |       | 100.0% |

#### Chi-Square Tests

|                              | Value    | df | Asymp. Sig. (2-sided) |
|------------------------------|----------|----|-----------------------|
| Pearson Chi-Square           | 1.659(a) | 2  | .436                  |
| Likelihood Ratio             | 1.692    | 2  | .429                  |
| Linear-by-Linear Association | .919     | 1  | .338                  |
| N of Valid Cases             | 38       |    |                       |

a 4 cells (66.7%) have expected count less than 5. The minimum expected count is 1.79.

#### Risk Estimate

|                                       | Value |
|---------------------------------------|-------|
| Odds Ratio for kaki (rendah / sedang) | (a)   |

a Risk Estimate statistics cannot be computed. They are only computed for a 2\*2 table without empty cells.

#### kaki \* keluhan kaki Crosstabulation

## HASIL PENGOLAHAN DATA (SPSS) FAKTOR INDIVIDU DENGAN KELUHAN MSDs

### Case Processing Summary

|                                  | Cases |         |         |         |       |         |
|----------------------------------|-------|---------|---------|---------|-------|---------|
|                                  | Valid |         | Missing |         | Total |         |
|                                  | N     | Percent | N       | Percent | N     | Percent |
| kel_masa_kerja * keluhan_MSDs    | 38    | 100.0 % | 0       | .0%     | 38    | 100.0 % |
| kel_usia *                       | 38    | 100.0 % | 0       | .0%     | 38    | 100.0 % |
| keluhan_MSDs kebiasaan merokok * | 38    | 100.0 % | 0       | .0%     | 38    | 100.0 % |
| keluhan_MSDs                     |       |         |         |         |       |         |

### usia \* keluhan MSDs

#### Crosstab

|          |           | keluhan MSDs      |        | Total |
|----------|-----------|-------------------|--------|-------|
|          |           | Ya                | Tidak  |       |
| kel_usia | 18-30 thn | Count             | 21     | 21    |
|          |           | % within kel_usia | 100.0% |       |
|          | 31-50 thn | Count             | 14     | 16    |
|          |           | % within kel_usia | 87.5%  |       |
|          | > 50 thn  | Count             | 1      | 1     |
|          |           | % within kel_usia | 100.0% |       |
| Total    |           | Count             | 36     | 38    |
|          |           | % within kel_usia | 94.7%  | 5.3%  |

### Chi-Square Tests

|                              | Value    | df | Asymp. Sig. (2-sided) |
|------------------------------|----------|----|-----------------------|
| Pearson Chi-Square           | 2.903(a) | 2  | .234                  |
| Likelihood Ratio             | 3.614    | 2  | .164                  |
| Linear-by-Linear Association | 1.886    | 1  | .170                  |
| N of Valid Cases             | 38       |    |                       |

a 4 cells (66.7%) have expected count less than 5. The minimum expected count is .05.

### Risk Estimate

|   | Value |
|---|-------|
| Odds Ratio for kel_usia (18-30 thn / 31-50 thn) | (a)   |

a Risk Estimate statistics cannot be computed. They are only computed for a 2\*2 table without empty cells.

### masa kerja \* keluhan MSDs

#### Crosstab

|                |          | keluhan MSDs            |        | Total |
|----------------|----------|-------------------------|--------|-------|
|                |          | Ya                      | Tidak  |       |
| kel_masa_kerja | 0-5 thn  | Count                   | 25     | 27    |
|                |          | % within kel_masa_kerja | 92.6%  |       |
|                | 6-10 thn | Count                   | 4      | 4     |
|                |          | % within kel_masa_kerja | 100.0% |       |
|                | > 10 thn | Count                   | 7      | 7     |
|                |          | % within kel_masa_kerja | 100.0% |       |
| Total          |          | Count                   | 36     | 38    |
|                |          | % within kel_masa_kerja | 94.7%  | 5.3%  |

**Chi-Square Tests**

|                              | Value   | df | Asymp. Sig. (2-sided) |
|------------------------------|---------|----|-----------------------|
| Pearson Chi-Square           | .860(a) | 2  | .650                  |
| Likelihood Ratio             | 1.412   | 2  | .494                  |
| Linear-by-Linear Association | .747    | 1  | .388                  |
| N of Valid Cases             | 38      |    |                       |

a 4 cells (66.7%) have expected count less than 5. The minimum expected count is .21.

**Risk Estimate**

|  | Value |
|--|-------|
| Odds Ratio for kel_masa kerja (0-5 thn / 6-10 thn) | (a)   |

a Risk Estimate statistics cannot be computed. They are only computed for a 2\*2 table without empty cells.

**Chi-Square Tests**

|                              | Value   | df | Asymp. Sig. (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|------------------------------|---------|----|-----------------------|----------------------|----------------------|
| Pearson Chi-Square           | .455(b) | 1  | .500                  |                      |                      |
| Continuity Correction(a)     | .000    | 1  | 1.000                 |                      |                      |
| Likelihood Ratio             | .414    | 1  | .520                  |                      |                      |
| Fisher's Exact Test          |         |    |                       | .501                 | .501                 |
| Linear-by-Linear Association | .443    | 1  | .506                  |                      |                      |
| N of Valid Cases             | 38      |    |                       |                      |                      |

a Computed only for a 2x2 table

b 2 cells (50.0%) have expected count less than 5. The minimum expected count is .58.

**Risk Estimate****kebiasaan merokok \* keluhan MSDs****Crosstab**

|                   |               | keluhan MSDs               |       | Total<br>Ya |
|-------------------|---------------|----------------------------|-------|-------------|
|                   |               | Ya                         | Tidak |             |
| kebiasaan merokok | tidak merokok | Count                      | 10    | 11          |
|                   |               | % within kebiasaan merokok | 90.9% | 9.1%        |
|                   | merokok       | Count                      | 26    | 27          |
|                   |               | % within kebiasaan merokok | 96.3% | 3.7%        |
| Total             |               | Count                      | 36    | 38          |
|                   |               | % within kebiasaan merokok | 94.7% | 5.3%        |
|                   |               | Total                      |       | 100.0%      |

|  | Value | 95% Confidence Interval |        |
|--|-------|-------------------------|--------|
|  |       | Lower                   | Upper  |
| Odds Ratio for kebiasaan merokok (tidak merokok / merokok) | .385  | .022                    | 6.757  |
| For cohort keluhan MSDs = Ya                               | .944  | .772                    | 1.154  |
| For cohort keluhan MSDs = Tidak                            | 2.455 | .168                    | 35.860 |
| N of Valid Cases   | 38    |                         |        |